## What is claimed is:

1. A compound of Formula I or a pharmaceutically acceptable salt thereof

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wherein

 $R^1$  is selected from the group consisting of straight or branched chain  $C_{1-6}$  alkyl optionally substituted with amino,  $C_{1-4}$  alkylamino or di( $C_{1-4}$  alkyl) amino, pyridinyl, pyrrodidinyl, piperidinyl, 2-thienyl, furanyl, imidazolyl, indenyl, benzofuran,  $C_{3-6}$  cycloalkyl and phenyl optionally substituted with substituent independently selected from the group consisting of halogen,  $C_{1-4}$  alkyl,  $C_{1-4}$  alkoxy, trifluoromethyl, and trifluoromethoxy;

A is -CH=CH-, 1,1-cyclopropyl, or  $-(CH_2)_n-$ ;

R<sup>2</sup> is C<sub>1-4</sub> alkyl, CF<sub>3</sub> or hydroxymethyl;

15 R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup> and R<sup>6</sup> each are independently hydrogen or fluoro; n is an integer of 0 to 4, inclusive;

Het is selected from the group consisting of pyridinyl, pyrimidinyl, pyrazinyl, thiazolyl, imidazolyl, isoxazolyl, oxazolyl, pyrazolyl and triazolyl optionally substituted with substituents independently selected from the group consisting of  $C_{1-4}$  alkyl, halogen, amino and dimethylaminomethyl; provided that when Het is pyridinyl, pyrimidinyl or pyrazinyl, then A is not -CH=CH-.

2. The compound of claim 1 having the Formula Ic or a pharmaceutically acceptable salt thereof

$$R^1-A$$
 $R^2$ 
 $R^3$ 
 $R^4$ 
 $R^6$ 
 $R^6$ 
 $R^6$ 
 $R^4$ 

wherein

R<sup>1</sup> is selected from the group consisting of straight or branched chain C<sub>1-6</sub> alkyl optionally substituted with amino, C<sub>1-4</sub> alkylamino or di(C<sub>1-4</sub> alkyl) amino, pyridinyl, pyrrodidinyl, piperidinyl, 2-thienyl, furanyl, imidazolyl, indenyl, benzofuran, C<sub>3-6</sub> cycloalkyl and phenyl optionally substituted with substituent independently selected from the group consisting of halogen, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> alkoxy, trifluoromethyl, and trifluoromethoxy;

10 A is -CH=CH-, 1,1-cyclopropyl, or -(CH<sub>2</sub>)<sub>n</sub>-;

R<sup>2</sup> is methyl or hydroxymethyl;

R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup> and R<sup>6</sup> each are independently hydrogen or fluoro; n is an integer of 0 to 4, inclusive;

Het is selected from the group consisting of pyridinyl, pyrimidinyl, pyrazinyl, thiazolyl, imidazolyl, isoxazolyl, oxazolyl, pyrazolyl and triazolyl optionally substituted with substituents independently selected from the group consisting of C<sub>1-4</sub> alkyl, halogen, amino and dimethylaminomethyl; provided that when Het is pyridinyl, pyrimidinyl or pyrazinyl, then A is not -CH=CH-.

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- 3. The compound of claim 1 selected from the group consisting of: (S)-3-(2-fluoro-phenyl)-N-[1-(3-[1,2,4]triazol-1-yl-phenyl)-ethyl]-acrylamide;
- (S)-3-(2-fluoro-phenyl)-N-[1-(3-thiazol-2-yl-phenyl)-ethyl]-acrylamide;
- (S)-3-(2-fluoro-phenyl)-N-[1-(3-pyrazol-1-yl-phenyl)-ethyl]-acrylamide;
- 25 (S)-3-(2-fluoro-phenyl)-N-[1-(3-imidazol-1-yl-phenyl)-ethyl]-acrylamide;
  - (S)-4-phenyl-N-[1-(3-pyridin-3-yl-phenyl)-ethyl]-butyramide;
  - (S)-N-[1-(3-pyridin-3-yl-phenyl)-ethyl]-benzamide;
  - (S)-1H-imidazole-4-carboxylic acid [1-(3-pyridin-3-yl-phenyl)-ethyl]-amide;
  - (S)-N-[1-(3-imidazol-1-yl-phenyl)-ethyl]-3-phenyl-acrylamide;

- (S)-N-[1-(3-oxazol-5-yl-phenyl)-ethyl]-3-phenyl-acrylamide;
- (S)-3-phenyl-N-[1-(3-thiazol-2-yl-phenyl)-ethyl]-acrylamide;
- (S)-3-phenyl-N-[1-(3-pyrazol-1-yl-phenyl)-ethyl]-acrylamide; and
- (S)-benzofuran-2-carboxylic acid {1-[3-(6-fluoro-pyridin-3-yl)-phenyl]-ethyl}-
- 5 amide; or a pharmaceutically acceptable salt thereof.
  - 4. A pharmaceutical composition for the treatment of disorders responsive to opening of KCNQ potassium channels comprising a therapeutically effective amount of the compound of claim 1 in association with a pharmaceutically acceptable carrier, adjuvant or diluent.
  - 5. A method for the treatment of disorders responsive to opening of the KCNQ potassium channels in a mammal in need thereof, which comprises administering to said mammal a therapeutically effective amount of the compound of claim 1.
  - 6. The method of claims 5 wherein said disorders are acute and chronic pain, migraine, neuropathic pain, bipolar disorders, convulsions, mania, epilepsy, anxiety, depression and neurodegenerative disorders.

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- 7. The method of claim 6 wherein said disorder is migraine.
- 8. The method of claim 6 wherein said disorder is neuropathic pain.